

**Tetra Tech, Inc.**

4213 State Street, Suite 100
 Santa Barbara, CA 93110-2847
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base IRP**Log of Well No. **35-MW-7**

Location: OU4, Site 35, approx. 750 ft southwest of silo (Bldg. 1935).

Date Started: 2/18/98 Completed: 2/18/98

Logged By: J. Bonebrake
Harting Checked By: K. McNamara, R.G.Drilled By: B. Carpenter, S/G Testing *KH #6678*

Drilling Equipment: CME 75, 6-inch & 10-inch HSA

Sampling Equipment: 1 1/2-inch I.D. Split Spoon

GS Elev.: 408.8 ft above MSL TD: 46.5 ft bgs

4" PVC Bank Casing: from 0 ft bgs to 32.3 ft bgs

0.01" Screened Casing: from 32.3 ft bgs to 42.3 ft bgs

Bentonite/Cement Grout: from 0 ft bgs to 26 ft bgs

Bentonite Transitional Seal: from 26 ft bgs to 29 ft bgs

2/12 Sand Filter Pack: from 29 ft bgs to 43 ft bgs

TOC Elev.: 411.51 ft above MSL

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
	silty sand, dark brown (10YR 3/3), fine grained, poorly graded, subrounded, wet, some grained frosted, alluvium.		SM					0/22	Start drilling 1030. Log from grab soil sample at the surface.
5	silty sand, strong brown (7.5YR 5/8) and gray mottled (7.5YR 5/1), fine grained, poorly graded, subrounded, dense, moist, trace clay, frosted, Orcutt Formation.					15 24 20	100	0/72	Sampled only for lithology (entire boring).
10									
15	silty sand, strong brown (7.5YR 4/6) and brown mottled (10YR 5/3), fine grained, poorly graded, subrounded, medium dense, wet, few silt, sand grains frosted, Orcutt Formation.					6 9 7	90	0/0	
20									

22 ft bgs Groundwater depth during drilling

9.4 ft bgs Groundwater depth after well development on: 3/18/98

TC Number: A234-06

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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
25	silty sand, brown (10YR 5/3) fine grained, poorly graded, subrounded, very dense, wet, few silt (approx. 15%), frosted, Orcutt Formation.		SM			11 21 33	100	0/0	
30									
35	sand, grayish brown (10YR 5/2) fine to coarse grained, well graded, rounded, very dense, wet, few fine gravel (1/4" to 3/8"), few silt, Orcutt Formation.		SW			13 21 32	100	0/0	
40	shale, light brownish gray (2.5Y 6/2), moist, hard, weathered to clay, Sisquoc Formation		Shale						

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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
45	shale, (5Y 4/1), dark gray, moist, hard, Sisquoc Formation.		Shale			12	100	0/0	End drilling. TD at 46.5 ft bgs. Drilled 6-inch hole to 46.5 ft. Reamed with 10-inch auger to 43 ft. Construct 4-inch well using 0.01-inch Veewire screen.
						22			
						35			
50									
55									
60									
65									
70									